

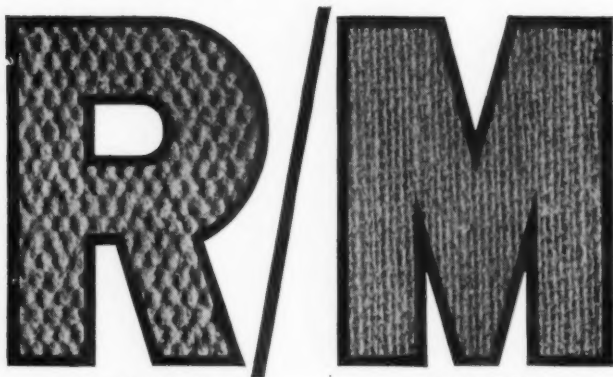
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ASBESTOS-CEMENT PRODUCTS IN THE CONSTRUCTIONAL FIELD

By: W. E. Sinclair, M.I.M.M.

So much has already been written extolling the virtues of asbestos-cement products in industry, that another article on this subject might, at this stage, appear somewhat superfluous.

However, this article considers a rather different aspect of the question. This evolves from an investigation of a series of weaknesses and failures of corrugated asbestos sheets in storms and fires in recent months. Consideration of these unexpected happenings must prove of interest, and perhaps of value, to construction engineers and manufacturers of asbestos-cement products.

No one can question the fact that the use of asbestos-cement products of every type has assumed extensive and important proportions, especially in the building trade, where shingles, sidings and lumber, (i.e., corrugated sheets, shingles, flat sheets and ancillary parts), play a wide and important role in certain fields.

The immense value of the products is made manifest by their world-wide utilization. Certainly, every asbestos producing country, even including the smallest producer, has established a factory for the fabrication of shingles and lumber for domestic use.

Kenya, with a maximum output of little more than 250 tons of anthophyllite annually is but one example where this is done for local consumption.

The insulating quality and durability of asbestos roofing in tropical zones is obviously a most helpful and valuable property, not to mention the high degree of resistance it possesses to every form of disintegration that may result from corrosion, weathering and attacks by destructive vermin. Actually, these natural attributes, plus the fact that the products are also incombustible, make them almost everlasting.

Its not surprising, in these circumstances, that most countries in the world today, import substantial quantities of asbestos, whether they are producers or not, for the

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purpose of manufacturing constructional asbestos-cement commodities. In this, a factor of importance is the use of the most satisfactory type and grade of asbestos for the purpose. It is generally accepted that the amphibole variety, crocidolite (Blue asbestos) constitutes the most perfect fibres for the manufacture of asbestos-cement products. Its near relative, amosite asbestos, may be safely said to qualify in this category since it possesses all the qualities of crocidolite, except perhaps the exceptional tensile strength of crocidolite.

Nevertheless, amosite is largely used, either alone or blended with crocidolite fibres for the fabrication of asbestos-cement products. The outstanding qualities of these amphiboles are that the fibres are characterized by their natural harsh texture and good length and strength, factors that are not commonly found in other varieties. In clean and opened fibre these properties offer a pronounced advantage in the wet mix process of fabrication, assisting as they do in the natural imbrication of the fibre strands to ensure thorough mixing and layering to assist in the maximum reinforcement of the material by procuring full advantage of the length and strength of the fibres.

Chrysotile asbestos is frequently used, and even anthophyllite of unusual length and strength has been used, as in Kenya. There is no doubt, however, except in certain harsh qualities of chrysotile, the results are not as good as those obtained from crocidolite and amosite fibres. In some cases, it has been found possible to change the soft and silky texture of chrysotile fibres by special pyrolysis treatment to ensure better qualities.

In all varieties of asbestos that may be used in the making of asbestos-cement products, one of the essential physical requirements, apart from the natural properties, is that all trace of dust or grit is removed from the fibre. This is obviously a vital requisite to ensure that each fibre strand is thoroughly mixed with the liquid cement in an even and homogenous pulp. The additional prerequisite of effective and complete fiberization of the asbestos to permit the clean division of the fibres is of equal importance. The net results of these operations make the fibres analogous in their action to steel reinforcement in concrete,

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thereby providing a uniform mass of constant strength throughout the finished material.

However, practical results, in many instances, suggest that the lack of the essential natural properties, as possessed by crocidolite and amosite fibres, opens up a possibility of weakness in the prepared article. Indeed this may be the cause of the development of fine cracks in sheets that are unavoidably subjected to frequent handling in the course of transportation from factory to the building site.

Although the standard mixture of the main constituents of asbestos and Portland cement is generally accepted as varying from 15% to 20% asbestos and 85% to 80% cement, plus, in some cases, the addition of silica and calcium oxide as hardening ingredients, in special circumstances, a larger proportion of asbestos fibres may be utilized. This may be because of weakness in the fibres or perhaps a modicum of flexibility is required in the sheet products, especially where thin sheets are made for some reason or other.

This point indeed would appear to be closely connected with the occurrences of damage to corrugated asbestos sheets referred to in the beginning of this article.

In the pursuance of these investigations, old records were found, dating prior to the manufacture of asbestos-cement products locally, when all commodities of this nature were imported. In these records it was stated that these were often prone to cracking or fracturing. Up until quite recently, however, few complaints have been noted in recent years. In the fabrication of these sheets in South Africa the general practice was to make the corrugated product 7' long by 3'3" wide and $\frac{1}{4}$ " thick. The usual test on these sheets was to subject them to a load of 1,012 pounds placed on an area of one foot square. In the circumstances, it is evident that the strength of corrugated asbestos-cement sheets appears to depend largely upon the thickness of the product and, indeed, the natural properties of the asbestos used, especially in regard to its fibre length and strength.

Following frequent reports of serious hail damage to asbestos roofs in South Africa, investigations disclosed the fact that the corrugated sheets affected were thinner than

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the usual 1/4-inch thick sheets. These heavy sheets were unaffected in the same storm areas where the lighter sheets were cracked and even perforated by the hailstones. In many cases, even more serious effects followed the initial breakages, when high winds, which generally accompany hail storms, ripped off broken and fractured sheets and scattered the pieces causing secondary damage to windows and other parts of adjacent buildings.

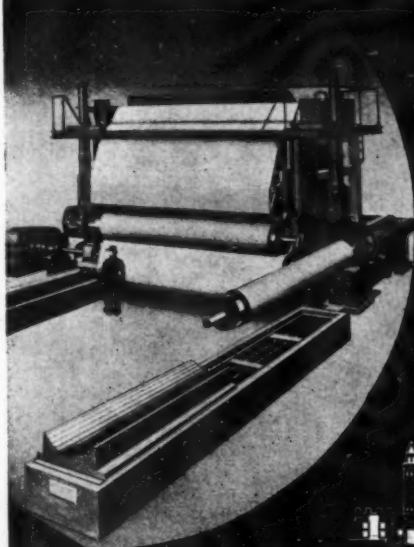
As would be expected, the position has caused widespread consternation amongst owners and those connected with the trade. The sufferer and the insurance companies are also amongst the many who are unhappy about these unfortunate and costly incidents.

Although in many parts of the world hailstorms are a somewhat rare phenomenon, there are areas where this form of precipitation is fairly common at certain periods of the year. Such storms, usually accompanied by high winds generally follow well defined belts, depending on topographical and atmospheric conditions at the time. Localized storms are not uncommon in some areas. In view of the prevalence of these storms in South Africa, serious consideration is being given to the introduction of another test to determine the strength of asbestos sheets. Even though manufacturers treat their products to the most rigorous tests before marketing it is considered necessary that a special hail and wind test should be included to observe the reaction under varying storm conditions. This test would amount to the exposure of the corrugated sheets at different angles to face conditions that simulate natural hail storm occurrences. Such a test would be effected by means of a pneumatic gun which could deliver stones of varying size driven at speeds up to 100 miles per hour.

It is only by the determination of a thickness or gauge capable of withstanding severe hailstorms that a safe standard can be fixed. By so doing confidence will be restored by the guarantee that specified standard asbestos-cement constructional products are absolutely storm proof in likely hail belts.

Another case is that of fire damage. The almost complete fragmentation of asbestos sheets in case of fire has called in question the assurance given to property owners

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that such products are non-inflammable. We know, of course, that such damage is of secondary origin, due in no way to the imagined combustibility of the asbestos sheets or shingles, but to the collapse of the supporting structure which, in most cases, consists of wooden framing. Architects, builders and property insurance inspectors should be aware of the fact that unless the roof trusses, i.e., the rafters, purlins, etc., are made of some non-inflammable framing such as steel, for instance, damage to asbestos roofing in case of fire is unavoidable.

C. Z. CARROLL-PORCZYNSKI, Director of Textile Improvements Limited, Guildford, England, was recently awarded the Fellowship of The British Textile Institute which is the highest professional and internationally recognized status in the textile industry.


Mr. Porczynski is the author of several books, two of which, "Asbestos—From Rock to Fabric" and "Inorganic Fibres", are well known to the readers of "ASBESTOS", the magazine. He is currently preparing a new book, "Fibrous Refractories and Metals", part of which is appearing from time to time in the form of articles in Engineering Materials and Design.

THE RUBEROID CO. is publishing an initial series of Golden Key Manuals, designed to assist the home modernization specialist in the operation of his business. The first series in the group is concerned with the roofing business, specifically with re-roofing. Eight booklets on roofing are planned, not only to provide helpful information and techniques to those already in the business but to demonstrate re-roofing's growth potential in the hope of attracting others in related fields into the roofing business.

When the series on re-roofing has been completed, Ruberoid is contemplating a similar group of manuals on the re-siding business.

Requests for copies of these booklets should be addressed to the Advertising Department, The Ruberoid Co., 733 Third Avenue, New York 17, New York.

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CANADIAN J-M TO USE SKIPS IN OPEN-PIT MINING

Next fall, asbestos ore from the Canadian Johns-Manville Jeffrey open pit will be hauled by two 35-ton skips operating on a 45-degree incline and feeding a battery of four jaw crushers.

Reason for the switch from truck-hauling to the existing crusher is to cut out the long haul from the pit bottom up the twisting haul-road, over one mile in length, and on a nine per cent grade.

Trucks will still be used in conjunction with the C.J-M. skiphoists to haul the ore from where it is mined to the skip loading site at the 360-foot level on the south side of the pit.

By next spring, a similar but smaller system will be in operation at the Flintkote open pit in Thetford Mines.

In the Jeffrey Mine skiphoist headframe will be located the motors for operating the skips, an 850-ton ore storage bin and four 48 x 60-inch jaw crushers. The headframe building will be steam-heated.

From the crushers, the ore will be transported to the dry rock storage shed by a system of conveyor belts. Made in Canada, one single 48-inch belt will be 1,012 feet long. A 500-horsepower motor and a complex hydraulic coupling are needed to power it.

Another innovation, too, will be the special two-inch lock-coil cable with a flat, non-circular section. Made of special steel, the cable will haul the skips which will operate in tandem.

Although $2\frac{3}{8}$ " diameter cables would normally be required for such a hauling job, the flat 2" cable has the same strength as its larger counterpart. What's more, C.J-M. already has 14-foot hoist-drums with 2" grooves.

Operation of the hoists will be completely automatic. However, an operator will be needed to work the crushers and control the trucks dumping into a drive-over structure at the skip-loading point.

Work on the project started last spring. C.J-M. plans call for the eventual installation of a similar system on the north-west side of the open pit, near the observation tower, for removing waste rock.

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"ASBESTOS"—July 1961

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B-E-H DUCT INSULATION

An improved spun mineral fiber duct insulation, said to have superior rigidity and strength at no sacrifice in thermal insulating qualities, is announced by Baldwin-Ehret-Hill, Inc. The new resin bonded material is called Baldwin-Ehret-Hill E-Z PLY because its improved mechanical properties will make it much easier to handle and apply, with less waste due to breakage, than earlier duct insulations.

The new material is said to be $2\frac{1}{2}$ times stronger and 3 times more rigid than the company's previous duct insulation. Its breaking strength exceeds 8 lbs. for a one-inch thickness 6 inches wide. Laboratory tests indicate that E-Z PLY exhibits less sag than earlier materials, and it meets or exceeds the requirements of Federal Specifications HH-I-562 and 564.

Baldwin-Ehret-Hill E-Z PLY is available either plain or with the following factory-applied facings: black Kraft paper vapor barrier bonded with a thick coat of high-penetration asphalt; scrim-reinforced aluminum foil laminated with flame-proof Kraft paper; embossed aluminum foil; and neoprene. Facing corners of the black Kraft paper are pre-folded to insure square, flat edges so that adjacent panels will butt together tightly.

E-Z PLY has a thermal conductivity ("k" factor) of 0.24 at a mean temperature of 75°F. and its maximum temperature limit is 450°F. It comes in 2x4 foot panels in thicknesses of 1, $1\frac{1}{2}$ and 2 inches. Light in weight and easy to cut to shape with a knife, it can be applied by any of the conventional methods of installing semi-rigid duct insulation.

Samples of E-Z PLY will be made available upon receipt of inquiries on company letterhead. Additional information may be obtained without cost from Baldwin-Ehret-Hill, Inc., 500 Breunig Avenue, Trenton 2, New Jersey.



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RAYBESTOS REVEALS FINDINGS OF BRAKE TEST RUN

Engineers of the Raybestos Division of Raybestos-Manhattan, Inc., have completed their analysis of the brake lining used in a two-car, cross-country brake test run held in February of this year. Their report shows that the projected life of the stock sets of the Raybestos proving ground tested brake lining used averaged more than 42,500 miles. This is the equivalent of more than 14 coast-to-coast trips. These figures are conservative and allow for all extremes of driving conditions, Raybestos emphasizes.

The test run, which was supervised by Ronald H. Moalli, Chief Engineer in charge of brake lining development for Raybestos, had an itinerary that subjected the two cars to all possible weather, terrain and traffic conditions. The route covered weather extremes from severe snow storms in the North to rain in Southern states to hot desert temperatures in the Southwest. Terrain ranged from table top flat roads to winding mountain roads. Traffic conditions experienced varied from stop-and-go crawling in large cities to cautious driving over country roads to driving at the maximum allowable speeds.

Two 1959 cars, one Chevrolet and one Ford, were used to make the test, because 1959 cars normally would be due for brake lining replacement. Each car was equipped with two axle sets Raybestos PG lining right from stock. The Ford was relined with rivited brake linings, the Chevrolet with bonded brake linings. Brake drums were sealed so that no adjustments, modifications or changes could be made during the trip across the country. The vehicles each carried a four-passenger load, plus luggage. Total weight of passengers and luggage was in excess of 800 pounds per car.

Each car was equipped with a U-tube decelerometer to record rate of slow downs; a hydraulic system line pressure gauge to record brake performance for any desired stop; a pyrometer to measure the temperatures of the brake lining in each wheel; and, a stop counter to record the total number of accumulated stops.



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The findings of the test run are:

1. Severe as it was, the test did not cause perceptible brake lining wear.

2. Urban or city "stop-and-go" traffic creates the highest temperatures in brake linings and brake drums. Consequently this type of driving is hardest on brakes.

3. No adverse braking effects were noticed while driving in snow, heavy slush, rain, etc. This does not mean that severe wetting of the brake linings would not cause serious deficiencies in the braking action.

4. Very little change in braking effort was noticed from 25 mph to 65 mph. (Due to speed limits, no very high speed brake checks were made during the test run.)

5. The load of the test vehicles significantly affected brake efficiency in that, with increased weight, stopping distances were longer for a given foot pressure on the brake pedal. (During one stage of the journey, one car's load was increased by one passenger and his luggage.)

6. Vehicles made an average of 1,210 brake applications each.

7. The brake linings used in the test run never pulled, faded nor grabbed and displayed no deleterious actions.

The cross-country trip was conducted not only as a brake test run, but also to introduce the Raybestos SAFE-T-GAGE, a caliper that measures brake lining wear. At the end of the run in Los Angeles, California, the caliper was applied to the brake linings of the two cars and readings were taken. The SAFE-T-GAGE was then placed on display at the International Automotive Service Industries Show, which had just opened in Los Angeles.

THE RUBEROID CO. opened its new general offices at 733 Third Avenue, New York 17, New York, on Monday, June 19th, 1961. In addition to the executive and administrative staffs of the parent company itself, the new offices will house personnel of Ruberoid's Mastie Tile and Funkhouser Mills divisions. Ruberoid, which will observe its 75th anniversary this October, was located at 500 Fifth Avenue in New York City since 1935.

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Improved "Caposil HT" moulded slabs for high temperature insulation, the result of many months' research and made on a new production line at their Barking Works, were shown for the first time by Cape Insulation and Asbestos Products Limited, a subsidiary of The Cape Asbestos Company Limited, on their stand at the Engineering, Marine and Welding Exhibition which opened at Olympia, London, on April 20th, 1961.

The new "Caposil HT" is distinctive for its pleasing white appearance and rigidity. Moulded accurately in a range of sizes up to 36" by 24" from 1" to 4" thick, these slabs are easily cut and handled. Unaffected by water or steam and chemically inert, they do not affect the surface to which they are applied. Maximum safe temperature limit is 1850°F.

Second new material on show for the first time was Aluminum Foil Faced Asbestos Cloth made at CIAP's asbestos textile factory at Hebden Bridge in Yorkshire. The foil forms an impervious water resisting barrier which can be washed down easily. Its applications include marine insulation and the manufacture of asbestos mattresses and insulation jackets.

F. E. Lewis, Senior Vice President of JEFFERSON LAKE ASBESTOS CORPORATION, a 77%-owned subsidiary of Jefferson Lake Sulphur Company, announced that work was started, June 9th, 1961, on the Jefferson Lake Asbestos Corporation's 2,500 ton per day asbestos mill in Calaveras County, California.

A contract for the construction of the 3½ mile access road to the plant has been awarded and the initial work consists of the construction of the access road and clearing of the plant site. A contract was also awarded to mine the asbestos ore for Jefferson Lake Asbestos Corporation.

The plant is scheduled to be on stream by March 1962 and construction costs are estimated at \$5,000,000.

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AUTOMOBILE SALES

	April 1961
Passenger Cars	453,425
Motor Trucks	93,858
Motor Coaches	425
	<hr/> 547,708

In April 1960, a total of 703,002 motor vehicles were sold. In the four months of 1961 the total was 2,007,909.

These figures were supplied by the Automobile Manufacturers Association, New Center Building, Detroit, Michigan.

FRICITION MATERIALS STANDARDS INSTITUTE, INC., at its Annual Meeting held on June 20th, 1961, elected the following officers for the year starting July 1st, 1961: President—*James L. McGovern, Jr.*, Raybestos-Manhattan, Inc.; Vice-President—*S. Arthur Smith*, Silver Line Brake Lining Corporation; Treasurer—*Harold Hodson*, The Bendix Corporation, Marshall-Eclipse Division; and, Secretary—*Miss Harriet G. Duschek*.

Other members of the Board of Directors, serving with these officers, are: *George S. Lamson*, L. J. Miley Company; *Alexander Bette*, Johns-Manville Corporation, *John H. Kelly*, The Bendix Corporation, Marshall-Eclipse Division; *Joseph Greenan*, World Bestos Division, The Firestone Tire & Rubber Company; and, *Wade E. Canfield*, The S. K. Wellman Company.

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Carey-Canadian Mines Ltd., East Broughton Station, P. Q., Canada

modern milling methods . . .
exact quality control



swift flow of quality fibres
and shorts to the market



MARKET CONDITIONS

GENERAL BUSINESS.

General business continues to improve. All major economic indicators were showing a continuing uptrend for May. The stock market has been marking time which is to be expected in view of the substantial rise this spring and the current exceptionally high ratio of most stock prices to earnings and dividends. Steel production is up but projected sales for the next few months are not so good as predicted some months ago. It appears the recovery is definitely underway but it is moving rather slowly and there are still many segments of industry which show little or no improvement to date.

ASBESTOS—RAW MATERIAL.

Asbestos fibre shipments for the Industry during May 1961 ran at a rate of 106,600 tons or 7,260 tons higher than the same period last year.

Year to date shipments at 367,849 tons are now running only slightly over 1% below the first five months of 1960.

Export sales are continuing at a strong pace and are expected to exceed 1960 sales by a comfortable margin.

The 1961 estimate of 5% increased sales over 1960 is expected to materialize.

ASBESTOS—MANUFACTURED GOODS.

Asbestos Textiles. The market situation at the present time is gradually improving and should continue to improve during the balance of the year.

Asbestos Brake Lining. The volume of sales for this product is very good but highly competitive price-wise. This situation is expected to continue to be good during the remainder of 1961.

Asbestos Paper. The demand for this material has improved slightly although prices continue to be competitive.

high-temperature
insulation

reinforcement for
asbestos-cement
products

plastics

rigid insulations



many industries find many uses for

AMOSITE asbestos fiber

Longest-fibered of all asbestiform minerals, Amosite, when fiberized, increases many times in volume. The rod-like nature of the long, minute fibers keeps the mass open, bulky, resilient. Learn how you can benefit by the unique characteristics of this form of asbestos from the world's largest producers of Amosite.

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In the United States

NORTH AMERICAN ASBESTOS CORPORATION

Board of Trade Building • Chicago 4, Illinois



In Canada

CAPE ASBESTOS (Canada) Limited

200 Bloor Street East • Toronto, Ontario • Canada

Subsidiaries of The Cape Asbestos Company Ltd. • London

for the business which is available. It is anticipated there will be a slight increase in the overall volume during the balance of the year. The market for *Asbestos Millboard* has improved slightly and the outlook is bright for the future.

Asbestos-Cement Products. The market is seasonally improved and a fairly good year is expected for the remaining months of this year.

High Pressure Insulation. The market for this material has slowed down considerably and prices are extremely competitive among the manufacturers and contractors for the business which is available. With the many new projects coming from the boards, business is expected to improve during the balance of the year.

Shingles—Roofing & Siding. The present market for these products is firm to the point that business in 1961 will be at least equal to that of 1960. However, the entire siding market is extremely competitive but should improve with the general increase in business activity.

Asbestos Pipes. The volume of jobs getting underway is increasing to a satisfactory level thus providing activity for most all segments of the construction industry. This trend is expected to continue throughout the year.

The above comments have been made by various informed executives in the Industry. All comments are welcome.

GEORGE H. RHINEHART's many friends in the Asbestos Industry throughout the world will be grieved to know that he has passed away. He died in Puerto Rico on June 20th, 1961.

Mr. Rhinehart started his association with the Asbestos Industry when he joined Asbestos Limited in 1941 after having retired from the banking industry in the United States. Later on, in 1947, he formed George H. Rhinehart, Inc. and acted as an agent for special territories for the Asbestos Corporation Limited.

Mr. Rhinehart had a great number of good friends in many countries who will deeply mourn his passing.

High grade asbestos fibers produced to your needs



Shingle and siding stock, floor tiles, brake linings, insulating coatings, pipe or plastics — name your product—Flintkote's research laboratories are completely equipped to determine and recommend the grade and characteristics of asbestos fiber your product needs. Flintkote Mines extensive facilities mill fibers to meet every requirement!

If asbestos fiber is a factor in your manufacturing process, call or write Flintkote for a quick answer to any problem.

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• Toronto Office: 30th
Street, Longbranch,
Toronto, Ont., Canada
• London Office: Adam
House, 1 Fitzroy Square,
London W-1, England

BUILDING

Substantial gains in highways, commercial building, electric light and power systems, and apartments in May 1961 sparked a 5% rise over a year ago in contracts for future construction in the United States, F. W. Dodge Corporation reported.

May construction contracts totalled \$3,501,318,000.

Contracts for residential buildings in May amounted to \$1,553,499,000, a gain of 7% over the same month last year. The number of dwelling units represented by the total residential contracts was 112,681, up 5% over a year ago.

Commenting on the residential figures, Dr. George Cline Smith, Dodge Vice President and Chief Economist, pointed out that "while apartment building contracts continued their strong showing in May with a 23% gain, even more noteworthy was the 4% rise in single-family houses, marking the first time in 17 months that this category exceeded year-earlier levels".

Non-residential building contracts in May totalled \$1,105,306,000, just slightly below the May 1960 level. A substantial decline in contracts for manufacturing buildings more than offset sharp increases in commercial, public, and recreational buildings as well as a moderate gain in educational building contracts.

May contracts for future heavy engineering construction rose 9% to \$842,513,000. Chief contributors to the increase were highways—up 25%, and electric light and power systems—up 39%.

After adjustment for normal seasonal patterns, the May total of construction contracts dipped modestly from April. The Dodge Index (1947-49=100) in May stood at 257, compared with 261 in April and 262 in March.

Cumulative totals of construction contracts for the first five months of 1961, with percentage changes from the corresponding period last year, are: non-residential building, \$4,779,358,000, up 2%; residential building, \$6,207,458,000, up 1%; and, heavy engineering \$3,652,373,000, up 11%—total construction, \$14,639,189,000, up 14%.

ONLY APPROVED CONTRACTORS INSTALL B-E-H INSULATIONS

The THERMALITE 85% Magnesia Insulation in this boiler room is typical of the faultless work of B-E-H approved contractors. Only men fully skilled in the application of B-E-H products are entrusted with their installation. Result: Full insulating value and long, trouble-free

service life with economical heating.

Standard inventories of THERMALITE are maintained by distributors in all principal cities. For the full story of this money-saving insulating material, see your B-E-H Distributor or write direct for new Catalog to the address below.



Typical THERMALITE installation. THERMALITE has unusually low thermal conductivity, is molded to exact shape, assuring tight joints and snug pipe fits essential for maximum heat economy.



BALDWIN-EHRET-HILL
500 Breunig Avenue Trenton 2, New Jersey

AMERICAN SOCIETY FOR TESTING MATERIALS, at the President's Luncheon, Chalfonte-Haddon Hall, Atlantic City, New Jersey, during its 64th Annual Meeting, announced the election of its following new national officers: *Miles N. Clair*, President, The Thompson & Lichtner Company, Inc., Brookline, Massachusetts, was elected President of ASTM to serve for a one-year term beginning at the close of the Society's week-long meeting; *Alfred C. Webber*, Assistant to the Laboratory Director, Research and Development Division of the Polychemicals Department, E. I. duPont de Nemours and Company, Inc., Wilmington, Delaware, was elected Vice-President; and, *R. Wade Seniff*, Manager of Research, The Baltimore and Ohio Railroad Company, Baltimore, Maryland, will continue as Senior Vice-President.

New members of the Board of Directors elected for three-year terms were: *Ardrey M. Bounds*, Chief Metallurgist, Superior Tube Company, Norristown, Pennsylvania; *Albert G. H. Dietz*, Professor of Building Engineering, Massachusetts Institute of Technology, Cambridge, Massachusetts; *Bruce W. Gonser*, Technical Director, Battelle Memorial Institute, Columbus, Ohio; *Wayne A. Kirklin*, Manager, Analytical Division, Hercules Powder Company, Wilmington, Delaware; *Gordon M. Kline*, Chief, Organic and Fibrous Materials Division, National Bureau of Standards, Washington, D.C.; and, *James B. Rather, Jr.*, Coordinator in Charge of Toxicology and Air and Water Pollution, Socony Mobil Oil Company, Inc., New York City.

UNION ASBESTOS & RUBBER COMPANY has available a new brochure on UNARCOBOARD. Made with Amosite asbestos, UNARCOBOARD is a structural insulating panel resistant to 1200°F. and is available in 4'x8' sheets in thicknesses from 1/2" to 2". For a copy of this informative brochure, write to Union Asbestos & Rubber Company, Fibrous Products Division, 1111 West Perry Street, Bloomington, Illinois.



asbestos cement department

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NOTICE

The R.C.M. Company (Revisione Costruzione Macchine) - 10, Via Santa Teresa - Turin - Italy, wishes to inform that anybody interested is invited to visit a very modern Factory in Italy where an R.C.M. automatic installation is in working activity for the manufacture and finishing of Asbestos-Cement pressure and non-pressure Pipes, also of small diametre.

Examination of this installation will clearly show the results reached by the R.C.M. Company in the construction of machinery for the Asbestos-Cement Industry.

This machinery permits the use of lower priced asbestos mixtures while producing the same quality product in accordance with the standards now in force.



PRODUCTION STATISTICS

AFRICA (Rhodesia)

(Published by Rhodesian Mining and Engineering)

Tons 2,000 lbs.

Production for April 1961	13,324.60
Valued at	£731,879.00*
Production for April 1960	10,470.57
Valued at	£584,672.00*

*Corrected to the nearest £.

AUSTRALIA

(Published by Bureau of Mineral Resources)

Tons 2,000 lbs.

Quarter Ending
September 30, 1960

Production

Chrysotile	333
Crocidolite	4,461
	<hr/> 4,794

Imports

Amosite	2,404
Chrysotile	8,449
Crocidolite	51
Other	626
	<hr/> 11,530

Exports

Chrysotile .....	..
Crocidolite	1,851
Other	43
	<hr/> 1,894

PHILLIPS ASBESTOS MINES

Producers of CRUDES and FIBERIZED ASBESTOS

The World's Finest Fibres

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Mines and Mills in Gila Co., Arizona

**All machinery for the equipment of plants
producing asbestos-cement pipes and sheets**

covering the entire production process from the stock
preparation to the testing of the finished product.

All machinery for wet or dry preparation of asbestos-
cement / Asbestos silos.

Sheet producing machines with one to three cylinder
moulds, automatic or semi-automatic combined pro-
duction lines for flat and corrugated sheets.

Piling equipment combined with cleaning and lubri-
cating machinery for flat and corrugated steel sheets,
suitable also for automatic operation / punching and
trimming machines / hydraulic presses.

Pipe winding machines for the production of pressure
pipes of up to 5 metres (16 ft. 5 in.) length and
1000 millimetres (3 ft. 3 in.) dia / lathes for pipes and
joints / cut-off grinders / testing presses for pipes and
joints / calenders for the forming of plain and joint-
fitted pipes / mandrel pull off machines / autoclaves
for hardening of asbestos-cement sheets and pipes as
well as many other units, pumps and accessories.

Leaflets describing individual machines
will be readily sent on request.



J.M.VOITH A.G.

St. Poelten — Austria
P.O.B. 168 / Tel. 2501 / Teletype 01 510

CANADA

(Dept. of Mines, Province of Quebec)

Tons 2,000 lbs.

Production for April 1961 (Quebec)	90,387
Other Provinces	5,939
	<hr/>
	96,326

Total production for April 1960 was 96,053 tons.

CYPRUS

(From Inspector of Mines)

Tons 2,000 lbs.

	1st Quarter (Ending March 31, 1961)		
	January	February	March
Rock Mined	14,985	25,631	36,445
Rock Treated .....	..	..	..
Fibre Produced ....	..	..	9
Fibre Exported	722.5	1,222	1,590

UNION OF SOUTH AFRICA

(Quarterly Information Report—Dept. of Mines)

Tons 2,000 lbs.

	4th Quarter (Oct., Nov. and Dec. 1960)					
	Production			Exports		
	Tons	Tons	Value	Tons	Value	
Amosite	15,882	2,736	£ 82,628	17,530	£ 803,534	
Chrysotile	7,764	1,417	47,744	7,778	421,864	
Cape Blue	18,127	1,143	77,253	19,379	1,371,910	
Transvaal Blue .	2,681	669	26,903	2,467	166,441	
Tremolite	14	7	152	11	229	
	<hr/>	<hr/>	<hr/>	<hr/>	<hr/>	<hr/>
	44,468	5,972	£234,680	47,165	£ 2,763,978	
	<hr/>					
	Year 1960			Year 1960		
Amosite	68,630	3,125	£ 97,489	68,187	£ 3,186,581	
Chrysotile	29,471	4,092	121,976	25,338	1,345,824	
Cape Blue	66,567	2,520	172,422	72,152	5,212,760	
Transvaal Blue .	11,185	692	28,244	9,122	629,360	
Tremolite	14	48	998	11	229	
	<hr/>	<hr/>	<hr/>	<hr/>	<hr/>	<hr/>
	175,867	10,477	£421,129	174,810	£10,374,754	

**Partial list
of users**

United States

Alcatraz Co. Inc.
American Brake
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Armstrong Cork Co.
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Durex Plastics
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Henry, W. W. Co.
Hooker Chemical Co.
Inland Mfg. Div.
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Worldbestos

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Asbestos Corp.
Asbestonos Corp.
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Manville
Cassiar Asbestos
Husky Oil
Lake Asbestos

Elsewhere

Beral-Bremsbelag Kg.,
West Germany
Everitube,
France
Hellenic Building
Materials, Greece
Industria de Asbestos
Dominican Republic
Israel Brake Lining,
Israel
J. D. Jones, India
Pacmac Machinery,
Philippines
Turner Bros., England

MOODY Fibre Fluffer re-opens Pressure Packed Asbestos Fibre

...all grades of pressure packed asbestos from shorts 7-R to spinning fibre 3-R restored to pre-packaged fluffy condition — free from lumps and mats. Compact, simple to operate — fits into any production line. Up to 15 ton capacity per hour.



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Imports Into U.S.A.

(Figures by Bureau of Census)

Unmanufactured Asbestos:

	February 1961 Tons (2,240 lbs.)
From: Canada	37,838
Union of South Africa	1,894
Yugoslavia	787
Rhodesia (Nyasaland)	112
United Kingdom	65
Other Countries	3,075
	<hr/> 43,771
Valued at:	\$4,385,853

By Grades:

Crude, No. 2, Chrysotile	44
Crude, Other, Chrysotile, Yugoslavia	787
Crude, Other, Chrysotile, U. of S. Africa	166
Crude, Other, Chrysotile, (Rhodesia Ny)	112
Crude, Other, Chrysotile, Other Countries	4
Crude, Blue, Union of South Africa	1,215
Crude, Amosite, United Kingdom	65
Crude, Amosite, Union of South Africa	513
Textile Fiber, Chrysotile, Canada	984
Shingle Fiber, Chrysotile, Canada	5,753
Paper Fiber, Chrysotile, Canada	2,071
Paper Fiber, Chrysotile, Other Countries	3,000
Other Fibers, Chrysotile, Canada	29,030
Other Fibers, Chrysotile, Other Countries	27
	<hr/> 43,771

Manufactured Asbestos Goods:

	February 1961 Quantity (lbs.)	Value
Asbestos Yarn, United Kingdom	30,019	\$ 21,701
Israel	25,497	11,186
Other Countries	1,780	1,209
Asbestos Packing, United Kingdom ..	25,267	16,165
Asbestos Shingles (Impregnated)		
Belgium	103,688	17,565
Other Countries	7,747	1,471

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Cement Products

Give Better:

- ▶ **FINISH**
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Our sales engineers and designers have succeeded many times in improving one or more of these essential production features. We can help you too.

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ALBANY FELT SALES ENGINEER

**ALBANY FELT
COMPANY**
ALBANY, N.Y.

AF



Asbestos-Cement Pipe & Fittings		
(Not Impreg.), Mexico	614,680	56,896
Belgium	1,720,355	133,515
Italy	1,172,850	45,829
Asbestos-Cement Mfgs. Other		
(Not Impreg.), Belgium	777,905	36,142
Other Countries	114,438	6,913
Asbestos Manufactures—Others .....	..	2,167
	<hr/> 4,594,226	<hr/> \$350,759

Exports From U.S.A.

(Figures by Bureau of Census)

Unmanufactured Asbestos:

	March 1961	
	Tons (2,240 lbs.)	Value
To: Europe	31	\$ 11,074
South America	24	7,806
United Kingdom	20	1,880
Canada	13	4,328
Other Countries	20	4,451
	<hr/> 108	<hr/> \$ 29,539

Manufactured Asbestos Goods:

	March 1961	
	Quantity	Value
Asbestos Cement & Pipe Covering Lbs.	410,719	\$ 115,913
Asbestos Textiles & Yarn	Lbs. 62,604	62,080
Asbestos Packing	Lbs. 149,777	228,387
Asbestos Clutch Facing	No. 248,366	183,110
Asbestos Bk Lng (Mld & S.Mld) Lin.Ft.	109,091	46,933
Asbestos Brake Lining, Other ...	Lbs. 382,623	300,853
Asbestos Construction Material ...	Lbs. 1,861,079	277,176
Asbestos Manufactures — Other .....	..	68,338
		<hr/> \$1,282,790

THE CAPE ASBESTOS CO. LTD.

Annual Report—1960

The 68th Annual General Meeting of The Cape Asbestos Company Limited was held on May 26th, 1961, and the Report of the Directors and the Statement of Accounts for the year ended December 31, 1960, were submitted.

The net profit of the Group after all charges except taxation totalled £1,859,029, a rise of 17½% on the figure of £1,581,436 in 1959. Depreciation was £826,958 against £759,806 last year and taxation amounted to £854,495, as compared with £637,368 in 1959. The net profit of the Group after taxation was £1,004,534 and of this £378,313 was retained by subsidiary companies.

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Cables:

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London

Exports From Canada

(Published by Dominion Bureau of Statistics)

Unmanufactured Asbestos:

	January 1961	
	Tons (2,000 lbs.)	Value
<i>Crude</i>		
United States .....	..	\$ ..
United Kingdom .....	..	..
South America .....	..	..
Central America & Mexico .....	..	..
European Countries	18	14,417
Other Countries .....	..	..
	18	\$ 14,417
<i>Milled</i>		
United States	10,149	\$1,959,871
United Kingdom	2,128	425,672
South America	3,059	532,835
Central America & Mexico	1,558	283,545
European Countries	8,142	1,669,060
Other Countries	3,054	531,272
	28,090	\$5,402,255
<i>Shorts</i>		
United States	30,052	\$1,608,933
United Kingdom	5,114	278,642
South America	82	3,385
Central America & Mexico	302	22,670
European Countries	4,492	239,867
Other Countries	774	51,912
	40,816	\$2,205,409
<i>Grand Total—</i>		
<i>Unmanufactured Asbestos:</i>	68,924	\$7,622,081
<i>Manufactured Asbestos Goods:</i>		
Brake Linings Facings		\$ 36,814
Asbestos-Cement Building Materials		1,495
Asbestos-Cement Products, Other		12,809
		\$ 51,118

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Importer of Raw Asbestos

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In 5 minutes...An Automatic Test of Fiber Openness

Press the starter button, and in 5 minutes the Blaine-Dyckerhoff air permeability tester will *automatically* determine the surface area of asbestos fiber. This apparatus as used at the J-M Research Center and by J-M Mill Quality Control at Asbestos, Quebec, is accurate within a 5% margin of error.

In a continuing effort to improve fiber quality and uniformity, and after thoroughly evaluating and testing, J-M recommends this equipment to the Asbestos Industry as an approved and improved method in Quality Control.

For full details, write Johns-Manville, Box 14, New York 16, N. Y. In Canada: P.O. Box 1500, Asbestos, Quebec. Cable: Johnmanvil.

JOHNS-MANVILLE 

NEWS OF THE INDUSTRY

HAPPY BIRTHDAY

- Thomas L. Gatke, President, Gatke Corporation, Chicago, Illinois, July 16.
- Ian C. Spark, Vice President & General Manager, Cape Asbestos (Canada) Limited, Toronto, Canada, July 16.
- Robert R. Porter, Chairman of the Board & President, Keasbey & Mattison Company, Ambler, Pennsylvania, July 17.
- G. F. Bahrs, Vice President & Treasurer, The Ruberoid Co., New York City, July 18.
- John F. D. Rohrbach, President, Raybestos-Manhattan, Inc., Passaic, New Jersey, July 18.
- R. F. Turner, Sales Promotion Manager, The Philip Carey Manufacturing Company, Cincinnati, Ohio, July 18.
- H. L. Evans, Vice President of General Manufacturing & Director, The Flintkote Company, East Rutherford, New Jersey, July 20.
- C. B. Whitley, Vice President & General Manager, Scandura, Inc., Charlotte, North Carolina, July 20.
- C. J. Backstrand, President, Armstrong Cork Company, Lancaster, Pennsylvania, July 21.
- Rubert S. King, Chairman of the Board, The Philip Carey Manufacturing Company, Cincinnati, Ohio, July 21.
- W. S. Simpson, Secretary & Director and Vice President at Raybestos Division, Raybestos-Manhattan, Inc., Bridgeport, Connecticut, July 21.
- R. R. Galloway, Vice President, Fibreboard Paper Products Corporation, San Francisco, California, July 22.
- J. E. Hooker, Pacific Roofing Company, Portland, Oregon, July 22.
- Roscoe E. Tallman, Director of the Board, Tallman-McCluskey Fabric Company, Kirkwood, Missouri, July 22.
- Hilton A. Moberg, President, Arnold Insulations, Inc., Chicago, Illinois, July 25.
- P. H. Ryan, Merchandise Manager, Pabco Building Materials Division, Fibreboard Paper Products Corporation, San Francisco, California, July 26.
- Reed S. Hammond, Vice President, Johns-Manville Corporation, New York City, July 27.
- Clinton B. Burnett, President & Chief Executive Officer, Johns-Manville Corporation, New York City, July 29.
- John Ozurovich, Chairman of the Board, Atlantic Asbestos Corporation, New York City, July 31.
- R. B. Williams, First Vice President, Treasurer & Secretary, The Russell Manufacturing Company, Middletown, Connecticut, July 31.
- Harry H. Heckroth, Vice President, Penn Supply & Metal Corporation, Philadelphia, Pennsylvania, August 2.

GEBR. WEHRHAHN

MASCHINENFABRIKEN

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DELMENHORST / GERMANY

Manufacturers of the finest and most modern plants for the production of asbestos-cement products, such as

 pressure pipes

socket pipes

flat and corrugated sheets

Projecting — Erecting — Handing over
in ready-for-operation condition

Get full information! **Write now!**



G. P. Reilly, Plant Manager, National Gypsum Company, Millington, New Jersey, August 5.
A. P. Keasbey, Sr., President & General Manager, Robert A. Keasbey Company, New York City, August 6.
Melvin H. Baker, Chairman of the Board, National Gypsum Company, Buffalo, New York, August 11.
Grant V. Wilson, President, Grant Wilson, Inc., Chicago, Illinois, August 11.

To all these gentlemen we extend congratulations and best wishes on the occasion of their birthdays.

Edward J. Parker has been appointed Sales Manager of the Southeastern District, ROCKBESTOS WIRE & CABLE COMPANY, Division of Cerro Corporation, New Haven, Connecticut. He will be headquartered in Birmingham, Alabama.

Except for a short period of time, Mr. Parker has been associated with Rockbestos as Sales Manager of their St. Louis District.

JAM Industries, Inc., Trenton, New Jersey, has been appointed as an authorized insulation distributor-contractor by BALDWIN-EHRET-HILL, INC.

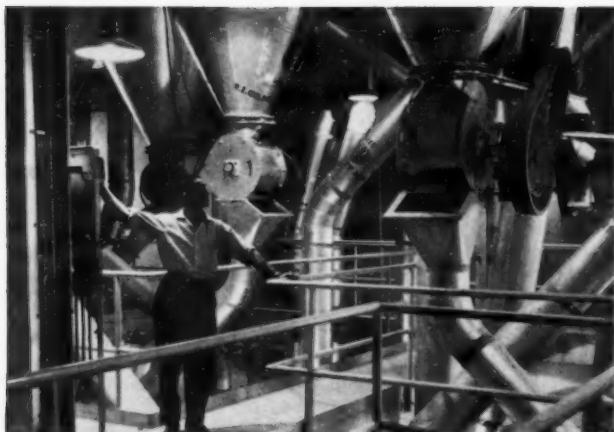
JAM offers the complete line of B-E-H industrial insulations, insulating cements and acoustical materials. In addition to a large warehouse stock and facilities in Trenton, JAM estimates, engineers and installs insulation and acoustical material and serves the central New Jersey area and northeastern Pennsylvania.

Joseph A. McKee is President of JAM Industries, Inc. He is well-known in the Trenton area, having served for 12 years as District Manager for Achenbach and Butler, Inc.

BRITISH BELTING & ASBESTOS LIMITED

Annual Report—1960

In presenting the accounts of British Belting & Asbestos Limited and its subsidiaries for the year ended December 31st, 1960, the Directors reported a Consolidated Net Profit after providing for all current working expenses, including Depreciation, of £1,428,005. Against this there have been charged the provisions for Taxation based upon profits for the year, amounting to £610,072. This leaves a net surplus on the year's working of £817,933. To this net surplus was added the provision for taxation not now required of £7,557 and extraordinary income for an overseas subsidiary of £5,096, giving a total of £830,586.



*Established source, volume source,
independent source of proven-quality
chrysotile asbestos fibre*

With an annual productive capacity of 100,000 tons of high grade asbestos, Lake Asbestos of Quebec is an established supplier of high grade asbestos for world wide use. Write for information to Asarco International Corporation, 120 Broadway, New York 5, N.Y., distributor for LAQ.

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Mount Isa Mines, Ltd., Sydney

BRAZIL
"Brasimet" Comercio e
Industria S.A.
Rio de Janeiro, Sao Paulo

CHILE
Agencias Kapel Ltda., Santiago

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(for U.K., Spain, Portugal)
Metal Traders Ltd.
Asbestos Division, London

FRANCE
Dieppedalle & Seailles, Paris

HOLLAND
(for The Netherlands, Bel-
gium, Switzerland)
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Amsterdam

ITALY
Amianto Del Lago, Torino

JAPAN
C. Itoh Co., Ltd., Tokyo & Osaka

NORWAY
Astrup & Son, Oslo

SOUTHEAST ASIA
Jardine Wough (Singapore) Ltd.
Singapore

SWEDEN
Aktiebolaget
Ingenjorsfirman Titan
Stockholm

WEST GERMANY
(for W. Germany, Austria)
Atlanta Bauer & Co., Bremen

LAKE ASBESTOS OF QUEBEC, LTD.
a subsidiary of American Smelting and Refining Company

ASARCO

BOOK LIST

The Asbestos Factbook, 16 pages: Information in comment form on origin, facts, locations, uses of analyses, qualities, 25c per copy.

Asbestos Mining Methods. By C. V. Smith. (Reprint) 16 pages 25c per copy.

Milling Asbestos. By J. C. Kelleher. (Reprint) 16 pages. Companion article to Asbestos Mining Methods. Both should be in every Asbestos Library, 25c per copy.

Recovery of Raw Asbestos. By Roland Starkey. (Reprint) 6 pages. Supplement to Milling Asbestos. 25c per copy.

Canadian Chrysotile Asbestos Classification. Including latest Quebec Testing Method. January 9, 1961 Edition. 4 pages 35c per copy.

Processing Asbestos Fibres. 8 pages. (Reprint). 25c per copy

Tests for Cotton Content. 4 pages (Reprint). Describing several methods of testing asbestos textile for cotton content. 10c per copy.

Chart—Dollars Cost of Uninsulated Pipe. (Reprint), 20c each

Brake Linings of Various Types. By R. T. Halstead, (Reprint) (12 pages) from August, September and October 1949 "ASBESTOS". Price 25c per copy.

Twelve Estimating Tables, with Chart. Convenient in figuring flange fittings and other areas, \$1.00 per set.

Manual of Unit Prices. For figuring pipe covering and blocks \$1.00 per single copy postpaid. Discount in quantities of 6 or more, postage billed.

Order any of the above from "ASBESTOS," 807 Western Saving Fund Bldg., Philadelphia 7, Pa. Payment should accompany order.

The 1961 Edition of **The Mining Journal Annual Review**, a record of the progress of mining throughout the world, was published on May 24th, 1961.

It is the only available publication giving a prompt annual report on the progress of mining throughout the world in both a technical and economic context.

All recent developments in mineral exploration, mining (both underground and open pit), ore treatment and refining are fully dealt with by recognized authorities.

The cost of this Review is 25 shillings per copy, postage paid, and may be obtained from The Mining Journal, 15, Wilson Street, Moorgate, London, E. C. 2, England.

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CANADA



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Raw Asbestos Crudes
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Carroll R. Jarden, Jr. of Abington, Pennsylvania, has joined KEASBEY & MATTISON COMPANY as a Sales Representative in the Ambler Building Products District, it was announced by D. P. Cortright, Manager, Ambler Building Products District.

Mr. Jarden formerly was Sales Representative for The Philip Carey Manufacturing Company.


John C. Langford has been appointed Personnel Manager and Purchasing Agent for KEASBEY & MATTISON COMPANY's newly-constructed asbestos-cement pipe manufacturing plant in Hillsboro, Texas, it was announced jointly at Ambler, Pennsylvania, headquarters by D. W. Keach, Personnel Manager, and Hugh M. Carleton, General Purchasing Agent.

Mr. Langford was previously employed as Office Manager by the Texas Employment Commission.

Talford G. Smith, Jr., of Mesquite, near Dallas, Texas, has been appointed Traffic Manager for KEASBEY & MATTISON COMPANY's new asbestos-cement pipe manufacturing plant at Hillsboro, Texas, it was announced by H. R. Candy, General Traffic Manager at Ambler, Pennsylvania.

Before assuming full duties at Hillsboro, Mr. Smith will spend time in training at K&M's general traffic department, Ambler, and the pipe manufacturing plants at Ambler and St. Louis, Missouri.

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As of July 10, 1961

ARIZONA—

Per Ton of 2,000 lbs., f.o.b. Globe, Arizona

No. 1 Crude (soft)	\$1,650.00 to \$1,800.00
No. 2 Crude (soft)	.....	800.00 to 1,000.00
Group No. 3 (Filtering & Spinning)	.....	375.00 to 450.00
Group No. 4 (Plastic & Filtering)	.....	225.00 to 250.00
Group No. 5 (Plastic & Filtering)	.....	190.00 to 225.00
Group No. 7 (Refuse & Shorts)	.....	58.00 to 90.00

CANADA—

Per Ton 2,000 lbs. f.o.b. Mine

Canadian Currency

Group No. 1 (Crude No. 1)	.....	\$1,410.00 to \$1,475.00
Group No. 2 (Crude No. 2); Crude		
Run-of-Mine and Sundry	....	610.00 to 875.00
Group No. 3 (Spinning Fibre)	.....	350.00 to 650.00
Group No. 4 (Shingle Fibre)	.....	180.00 to 245.00
Group No. 5 (Paper)	.....	120.00 to 150.00
Group No. 6 (Waste, Stucco or Plaster)	..	.. to 86.00
Group No. 7 (Refuse or Shorts)	.....	40.00 to 80.00

VERMONT—Per ton of 2,000 lbs. f.o.b. Hyde Park or Morrisville,

Vermont

Group No. 3 (Spinning & Filtering)	.....	\$ 345.00 to \$ 402.00
Group No. 4 (Shingle Fibre)	.....	181.00 to 320.00
Group No. 5 (Paper Fibre)	.....	120.00 to 142.00
Group No. 6 (Waste, Stucco or Plaster)	..	.. to 86.00
Group No. 7 (Refuse or Shorts)	.....	40.00 to 75.00

THE THORNWOOD ASBESTOS MINE near Gwanda, Southern Rhodesia's highest grade asbestos producer, was sold to Rand Mines Limited early last month for a figure reported by unofficial Bulawayo sources to be in the region of a quarter of a million pounds. Rand Mines have had the property under option from the owners, M. G. Asbestos (Pvt.) Limited, since mid-August of last year.

The Thornwood asbestos deposit occurs in an elongated mass of serpentine enclosed in fine-grained chloritic and sericitic schists with interbedded ironstones. The lenticular fibrous zone exposed in the workings is over 400 feet long and 40 feet width with an average dip towards the north-east of 70°. Drilling by Rand Mines in recent months is understood to have proved considerable strike and dip extensions to the asbestos zone.

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ASBESTOS STOCK QUOTATIONS

(These figures are compiled from the Commercial & Financial Chronicle. No guarantee as to their correctness.)

June 1961				
	Par	Low	High	Last
Advocate Mines Ltd.	1	\$3.85	\$4.25	\$4.25
American Brake Shoe	np	47¼	51¼	47¼
Armstrong Cork (Com)	1	56	60¼	59¼
Armstrong Cork (Pfd)	np	81¼	83½	82½
Asbestos Corporation	np	28¼	30%	30½
Philip Carey	10	29¼	31	29½
Cassiar Asbestos Corp.	np	13	14½	14¼
Celotex (Com)	1	27½	28%	28%
Celotex (Pfd)	20	18¾	19¼	19¼
Certain-Teed	1	51¼	64½	54¼
Fibreboard	np	29	33%	29¾
Flintkote (Com)	5	29%	32%	29¾
Flintkote (Pfd)	np	84	86½	86
Johns-Manville	5	65	72¾	66
National Gypsum (Com)	1	58½	62¼	60¾
National Gypsum (Pfd)	np	92½	96	95
Porter, H. K.	100	92¾	96	94¼
Raybestos-Manhattan	np	68¾	75¾	68¾
Ruberoid	1	39%	42¼	40½
Unarco	5	7%	8%	8
United Asbestos	1	\$5.20	\$6.00	\$5.85
U. S. Gypsum (Com)	4	100½	107	102
U. S. Gypsum (Pfd)	100	153¾	155	153¾
U. S. Rubber (Com)	5	57¾	60¼	58
U. S. Rubber (Pfd)	100	156¼	159½	157¼

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— : —

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E. Rutherford, N. J.

Robert D. Baker has been appointed Manager of **ADVOCATE MINES LIMITED** at Baie Verte, Newfoundland.

Mr. Baker joined Canadian Johns-Manville Company Limited in August 1946 as a Mining Engineer at Asbestos, P.Q., Canada. In 1947 he became Assistant Superintendent of the Open Pit Mine at Asbestos; in 1948 Assistant Superintendent of the Underground Mine; in August 1949 Acting Mine Superintendent in Matheson, Ontario, and was promoted Munro Mine Manager in February of 1950.

Robert W. Winson has been appointed Manager of Munro Mine, **CANADIAN JOHNS-MANVILLE COMPANY LIMITED**, effective July 1st, 1961.

In 1946, Mr. Winson was engaged as General Foreman in the Mills at Jeffrey Mine, Asbestos, P.Q., Canada, and became Assistant Superintendent in 1951 and Superintendent in 1954. During 1955, he was sent temporarily to a subsidiary firm, Rhodesian Asbestos Limited, and returned the following year when he was appointed assistant to, and then, General Manager of this Rhodesian Company. Upon the sale of the company to other interests in 1958, he returned to his former position in Asbestos, P.Q.

William R. Whitener has been appointed as Sales Manager for **JEFFERSON LAKE ASBESTOS CORPORATION**, a 77% owned subsidiary of Jefferson Lake Sulphur Company. This appointment was announced by Eugene H. Walet, Jr., President of Jefferson Lake Sulphur Company and Jefferson Lake Asbestos Corporation.

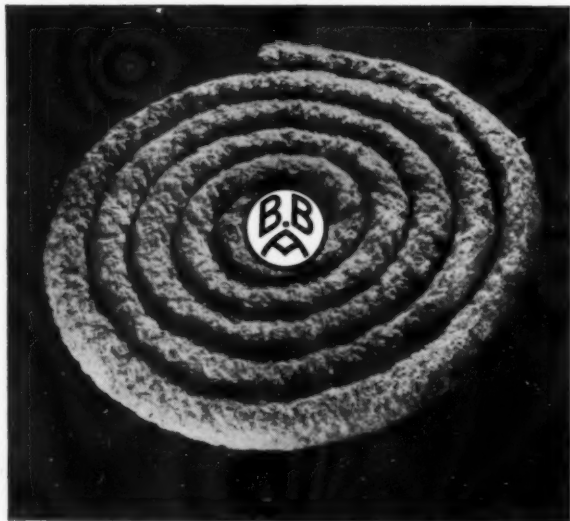
Mr. Whitener brings to Jefferson Lake Asbestos Corporation a background of experience in the uses and marketing of asbestos fiber throughout the world. He was formerly Sales Manager of Lake Asbestos of Quebec Limited, a subsidiary of American Smelting and Refining Company, and one of the major Canadian producers of asbestos fiber. Prior to joining Jefferson Lake Asbestos, Mr. Whitener was Purchasing Agent of Fibre-board Paper Products Corporation in San Francisco, whose Building Materials Division is one of the principal fabricators of asbestos containing building materials on the West Coast.

Mr. Whitener was born in Hawaii and attended the University of California and the University of Grenoble in France. His headquarters will be in San Francisco, California.

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This is B.B.A. Asbestos Fibre-Filled Rope Lagging for Steam Pipe Insulation, one of many of asbestos products, from yarn and rovings to cloth, tapes and jointings of all types and the world-famous MINTEX friction materials and MINTEX Industrial Plastics—made by B.B.A. In production, as in research, we are in the front of our field.



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PATENTS

Abstracts of U. S. Patents on Asbestos and Asbestos Products
by Oliver S. North.

Copies of patents can be obtained by sending 25 cents, (in coin), to The Commissioner of Patents, Washington 25, D. C., giving the patent number, date it was issued, name of patentee and name of invention.

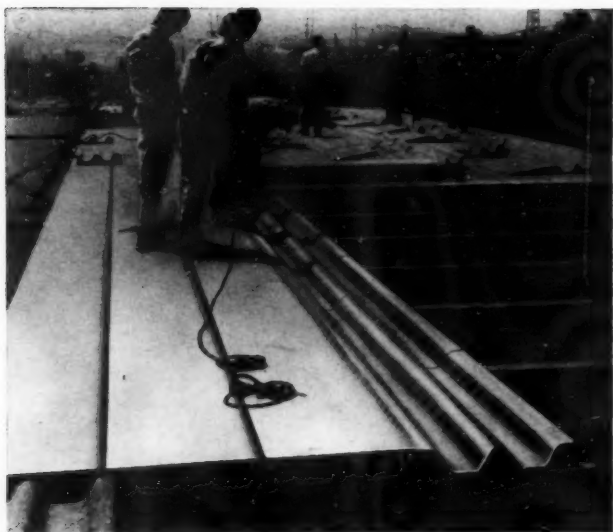
Asphaltic Seal Assemblies, No. 2,972,558. Granted on February 21, 1961 to L. F. Bramble. In the manufacture of a laminated seal assembly for use in sealing joints of petroleum pipelines, etc., asbestos yarn or fibre is alternated with an asphalt solvent mixture.

Sealing Compositions, No. 2,973,279. Granted on February 28, 1961 to W. A. Weidenbenner and L. A. Balling (assigned to American-Marietta Company, Chicago, Illinois). In the making of a reinforced, hot-hardenable sealing compound, a mixture is formed consisting of gilsonite, a naphthenic oil having certain specified properties, a grease that is resistant to flow at elevated temperatures, and asbestos floats.

Structural Form Production Method and Apparatus, No. 2,973,783. Granted on March 7, 1961 to C. F. Boe. Method for making a fiber-reinforced extruded structural unit from, for instance, an aqueous mixture of asbestos fibre and portland cement. The individual fibers are oriented so as to lie in opposite direction to the direction of extrusion, particularly in the outer portion of the shape.

Apparatus For Manufacturing Sheets of Fibrous Materials, No. 2,975,333. Granted on March 21, 1961 to A. Magnani. In an improved apparatus for manufacturing sheets of large size from a slurry of asbestos fibre and portland cement, the surface of the suction roller is provided with ribs forming channels which are externally defined by the web and which communicate with the suction source through outlet ports of the cylinder. The suction rollers are easy to clean.

Method and Machine For Manufacturing Asbestos Cement Tubes, No. 2,977,276. Granted on March 28, 1961, to D. Colliva (assigned to Johns-Manville Corporation, New York City.) A continuous machine for manufacturing tubes from an aqueous slurry of asbestos fibre and portland cement is characterized in that the feeding and unloading of the collecting cylinders are effected by simply rolling the cylinders along an inclined plane guideway and stopping them at various locations using hydraulic rams.



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"K&M"® T-Deck Roofing puts tough, durable asbestocement to work against the ravages of humidity. It won't corrode. Never needs protective painting or periodic maintenance. It's completely incombustible. Assembles in any weather, without heavy hoisting gear or scaffolding. Installation is topside of roofing structure. Add to these features a high-strength-weight ratio. For further information, write Keasbey & Mattison Company, Ambler, Pa., Dept. B-4841.



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